Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

**Limiting Reagent Practice Problems**

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| --- | --- | --- | --- | --- | --- |
| **Word** | **Answer** | **Word** | **Answer** | **Word** | **Answer** |
| Super | 12.01 | New | NH4NO3 | Eva’s | 86.59 |
| Dog | 31.45 | Stoichiometry | NaNO3 | Think | Na3PO4 |
| Don’t | 65.34 | Neville | 13.26 | Is | 0.22 |
| Ms. Eggleston | 1.19 | Than | 13.05 | Cuter | 4.38 |

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1. How many grams of the excess reagent will be left over if 80g I2O5 react with 28g carbon monoxide?

I2O5 + 5 CO 🡪 5 CO2 + I2

1. How many grams of the excess reagent will remain if 3g Mg react with 2.2g O2?

2 Mg + O2 🡪 2 MgO

1. How many grams of Al will be produced if 25.4g Al2O3 and 10.2g Fe react?

4 Al2O3 + 9 Fe 🡪 3 Fe3O4 + 8 Al

1. How many grams of NaCl will be produced if 15g CuCl2 and 20g NaNO3 are combined?

CuCl2 + 2 NaNO3 🡪 Cu(NO3)2 + 2 NaCl

1. If 11.3g NaCl are formed in the reaction described in problem #4, what is the percent yield?
2. Identify the limiting reagent if 30g ammonium nitrate and 50g sodium phosphate react.

3 NH4NO3 + Na3PO4 🡪 (NH4)3PO4 + 3 NaNO3

1. How many grams of NaNO3 can be formed from the reaction described in problem #6?